

# Exhibit A - Patents and Patent Applications

Case No.	Title	Inventor(s)	Status	Application No.	Filing Date	Patent No.	Issue Date	Country
11451 A	Method For The Reduction Of Lateral Shrinkage In Multilayer Circuit Boards On A Support	Kumar, A. H. Prabhu, A. N. Thaler, B. J.	Sold	08/780243	1/8/1997	5876536	3/2/1999	US
11451 B	Method For The Reduction Of Lateral Shrinkage In Multilayer Circuit Boards On A Substrate	Kumar, A. H. Prabhu, A. N. Thaler, B. J.	Appealed	09/146478	9/3/1998			US
11641	A Low Profile Multichip Module Package With Good Thermal Management Properties	Geller, B. D. Kumar, A. H. Prabhu, A. N. Thaler, B. J.	Granted	08/768062	12/16/1996	5847935	12/8/1998	US
12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Torney, E. S.	Pending	10-520793	10/30/1997			JP

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Sarnoff Proprietary Information

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12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Torney, E. S.	Granted	08/960663	10/30/1997	5929510	7/27/1999	US
12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Torney, E. S.	Granted	86116200	10/30/1997	127697	6/18/2001	TW
12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Torney, E. S.	Published	97946420.3	10/30/1997			EP
12003	Integrated Electronic Circuit	Fathy, A. E. Geller, B. D. Perlow, S. M. Prabhu, A. N. Torney, E. S.	Pending	99-7003713	10/30/1997			KR

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12065	Thick Ceramic On Metal Multilayer Circuit Board	Liberatore, M. J. Prabhu, A. N. Sreeram, A. N. Tormey, E. S.	Granted	08/812172	3/6/1997	5865240	2/2/1999	US
12065	Ceramic Multilayer Printed Circuit Boards With Embedded Passive Components	Liberatore, M. J. Prabhu, A. N. Sreeram, A. N. Tormey, E. S.	Granted	87103293	3/2/1998	NI-120124	9/11/2000	TW
12065	Ceramic Multilayer Printed Circuit Boards With Embedded Passive Components	Prabhu, A. N. Tormey, E. S. Liberatore, M. J. Sreeram, A. N.	Pending	10-538548	3/4/1998			JP
12065	Ceramic Multilayer Printed Circuit Boards With Embedded Passive Components	Prabhu, A. N. Tormey, E. S. Liberatore, M. J. Sreeram, A. N.	Published	98910019.3	3/3/1998			EP

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12065	Ceramic Multilayer Printed Circuit Boards With Embedded Passive Components	Prabhu, A. N. Torney, E. S. Liberatore, M. J. Sreeram, A. N.	Pending	99-7008082	3/3/1998			KR
12232	Multilayer Ceramic Circuit Boards Including Embedded Capacitors	Prabhu, A. N. Sreeram, A. N. Torney, E. S.	Granted	08/812151	3/6/1997	5953203	9/14/1999	US
12232 A	Multilayer Ceramic Circuit Boards Including Embedded Components	Prabhu, A. N. Sreeram, A. N. Torney, E. S.	Granted	09/031745	2/27/1998	6055151	4/25/2000	US
12372 A	Multilayer Ceramic Circuit Boards With Embedded Resistors	Palanisamy, P. Prabhu, A. N. Torney, E. S.	Pending	01-7010074	2/9/2000			KR
12372 A	Multilayer Ceramic Circuit Boards With Embedded Resistors	Palanisamy, P. Prabhu, A. N. Torney, E. S.	Granted	09/248636	2/9/1999	6399230	6/4/2002	US

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12372 A	Multilayer Ceramic Circuit Boards With Embedded Resistors	Palanisamy, P. Prabhu, A. N. Torney, E. S.	Pending	00-598340	2/9/2000			JP
12372 A	Multilayer Ceramic Circuit Boards With Embedded Resistors	Palanisamy, P. Prabhu, A. N. Torney, E. S.	Published	00913404.0	2/9/2000			EP
12372 B	Multilayer Ceramic Circuit Boards With Embedded Resistors	Palanisamy, P. Prabhu, A. N. Torney, E. S.	Pending	10/141421	5/8/2002			US
12428	High Performance Embedded RF Filters	Fathy, A. E. Geller, B. D. Liberatore, M. J. Sreeram, A. N. Thaler, B. J.	Appealed	09/430642	10/29/1999			US



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12428	High Performance Embedded RF Filters	Fathy, A. E. Geller, B. D. Liberatore, M. J. Sreeram, A. N. Thaler, B. J.	Pending	00-579540	10/29/1999			JP
12428	High Performance Embedded RF Filters	Fathy, A. E. Geller, B. D. Liberatore, M. J. Sreeram, A. N. Thaler, B. J.	Published	99963847.1	10/29/1999			EP
13213	High Dielectric Constant Buried Capacitors With Extended Operating Temperature Ranges	Chen, H. D. Thaler, B. J.	Pending	01-7005648	11/5/1999			KR
13213	High Dielectric Constant Buried Capacitors With Extended Operating Temperature Ranges	Chen, H. D. Thaler, B. J.	Published	99967096.1	11/5/1999			EP



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13213	High Dielectric Constant Buried Capacitors With Extended Operating Temperature Ranges	Chen, H. D. Thaler, B. J.	Granted	09/434059	11/4/1999	6300267	10/9/2001	US
13213	High Dielectric Constant Buried Capacitors With Extended Operating Temperature Ranges	Chen, H. D. Thaler, B. J.	Pending	00-79543	11/5/1999			JP

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